SEQUENCE LISTING

<110> Mullin, Beth C.
       Gupta, Rakesh
       Dobritsa, Svetlana V.

<120> Novel Plant Glycine and Histidine-Rich Metal-Binding Protein
       Family and Uses Thereof

<130> UTR.108XC1

<140> US 10/566,598
<141> 2006-01-31

<150> US 60/491,939
<151> 2003-08-01

<160> 8

<170> PatentIn version 3.3

<210> 1
<211> 99
<212> PRT
<213> Alnus glutinosa

<220>
<221> MISC_FEATURE
<222> (1)..(26)
<223> signal sequence or signal peptide

<220>
<221> MISC_FEATURE
<222> (50)..(83)
<223> metal binding domain

<400> 1

Met Gly Tyr Ser Lys Thr Phe Leu Leu Leu Gly Leu Ala Phe Ala Val
1   5   10   15

Val Leu Leu Ile Ser Ser Asp Val Ser Ala Ser Glu Leu Ala Val Ala
            20   25   30

Ala Gln Thr Lys Glu Asn Met Gln Thr Asp Gly Val Glu Glu Asp Lys
        35   40   45

Tyr His Gly His Arg His Val His Gly His Gly His Gly His Val His
    50   55   60

Gly Asn Gly Asn Glu His Gly His Gly His His His Gly Arg Gly His
65   70   75   80

Pro Gly His Gly Ala Ala Ala Asp Glu Thr Glu Thr Glu Thr Glu Thr
            85   90   95

Asn Gln Asn

<210> 2
<211> 655
<212> DNA
<213> Alnus glutinosa

<220>
<221> MISC_FEATURE
<222> (74)..(373)
<223> Coding sequence (positions (74)..(373))

<220>
<221> MISC_FEATURE
<222> (74)..(373)
<223> coding sequence (positions (74)..(373))

<400> 2
aattaatcat cttagagttt gtttccctag ctagtactac attgtctcca atcctcttca   60

ttgttaacga aaaatgggtt actccaagac ttttcttctc cttggccttg cctttgctgt   120

tgtgctcctc atctcctccg atgtctcagc ttctgagctt gctgttgccg ctcaaaccaa   180

ggagaatatg caaactgacg gtgtgaggga ggataagtat catggccatc gtcacgtgca   240

tggacatggg catggacatg tacatgggaa tgggaatgaa catggacatg gtcatccacca   300

cggccgtggt cacccaggac acggtgctgc tgcagacgag acagaaaccg aaactgaaac   360

caaccaaaat tagaccaatc ttttgattcg tcctatatat gctatcagtt gtacgtacgt   420

ctaagtgtgt ctaagtcgta atatgtggct taattatcta attaagcttg tatgccaata   480

aactttatgt ttctactttt gtcatgtgta atttttgctt ttctatgtat tacaatgtac   540

gctgtagcat atcaaaatta aacgaatcct ttgtcctata tatatatata tgcaactttt   600

gaaaggctgt acgtgaataa gattatattg gatgaaata tagtttatga attct   655

<210> 3
<211> 26
<212> PRT
<213> Alnus glutinosa

<220>
<221> MISC_FEATURE

<222>   (1)..(26)
<223>   signal sequence or signal peptide

<400>   3

Met Gly Tyr Ser Lys Thr Phe Leu Leu Leu Gly Leu Ala Phe Ala Val
1   5   10   15

Val Leu Leu Ile Ser Ser Asp Val Ser Ala
            20   25

<210>   4
<211>   34
<212>   PRT
<213>   Alnus glutinosa

<220>
<221>   MISC_FEATURE
<222>   (1)..(34)
<223>   metal binding domain

<400>   4

His Gly His Arg His Val His Gly His Gly His Gly His Val His Gly
1   5   10   15

Asn Gly Asn Glu His Gly His Gly His His His Gly Arg Gly His Pro
            20   25   30

Gly His

<210>   5
<211>   5
<212>   PRT
<213>   Artificial sequence

<220>
<223>   Peptide linker

<400>   5

Ser Gly Gly Gly Gly
1   5

<210>   6
<211>   7
<212>   PRT
<213>   Artificial sequence

<220>

<223> Peptide linker

<400> 6

Ser Gly Gly Gly Gly Ser Pro
1   5

<210> 7
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide linker

<400> 7

Ser Ser Ser Ser Gly
1   5

<210> 8
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide linker

<400> 8

Ser Ser Ser Ser Gly Ser Pro
1   5